

Appl. No. 10/713,636
 Atty. Docket No. CM2567C
 Amdt. dated 01/18/2005
 Reply to Office Action of 10/18/2004
 Customer No. 27752

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A hair care composition comprising one or more surfactants and a polysiloxane selected from the group consisting of:
~~(A) a terminal aminofunctional polysiloxane according to the formula:~~



~~wherein, A represents R_2SiO , wherein~~

~~R is an alkyl group of 1 to 5 carbons, or a phenyl group, or an alkoxy group or an hydroxy group;~~

~~Q is an amine functional group of the formula R^2Z ,~~

~~R is a divalent alkylene radical of 3 to 6 carbons, preferably trimethylene, pentamethylene, $CH_2CHCH_2CH_2$, or $CH_2CH_2CHCH_2CH_2$,~~

~~Z is $N(R^3)_2$ or $NR^3(CH_2)_nN(R^3)_2$,~~

~~R is individually an H atom or alkyl group of 1 to 20 carbon atoms or phenyl or benzyl,~~

~~and wherein:~~

~~x is from 1 to 3000,~~

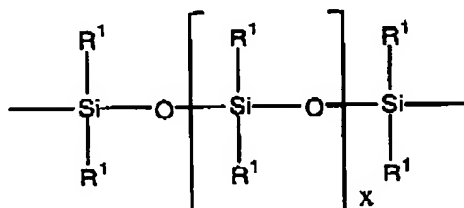
~~y is from 0 to 3,~~

~~z is from 1 to 3, and~~

~~n is from 2 to 6;~~

~~(B) (a) an aminofunctional polysiloxane (A) comprising alternating units of:~~

~~(i) a polysiloxane according to the following formula :~~



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and

(ii) a divalent organic moiety comprising at least one nitrogen atom; and

(iii) a monovalent organic moiety~~[[, .]] comprising at least one nitrogen atom, wherein said nitrogen atom is located at a terminal position of said polysiloxane; and~~

wherein R^1 is selected from the group consisting of an alkyl group of 1 to 5 carbons, [[or]] a phenyl group, [[or]] an alkoxy group, and [[or]] an hydroxy group; and x is from 1 to 3000; and

~~(C)~~ (b) mixtures of said aminofunctional polysiloxane (A) and (B) a terminal aminofunctional polysiloxane (B) according to the formula:



wherein A represents R_2SiO :

wherein:

R is an alkyl group of 1 to 5 carbons, or a phenyl group, or an alkoxy group or an hydroxy group;

Q is an amine functional group of the formula $-R^2Z$;

R is a divalent alkylene radical of 3 to 6 carbons;

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Z is $-N(R^3)_2$ or $-NR^3(CH_2)_nN(R^3)_2$;

R is individually an H atom or alkyl group of 1 to 20 carbon atoms or phenyl or benzyl;

and wherein:

x is from 1 to 3000;

y is from 0 to 3;

z is from 1 to 3; and

n is from 2 to 6.

2. (Currently Amended) A hair care composition according to claim 1, ~~wherein comprising the terminal aminofunctional polysiloxane of (A) further comprises (B) wherein:~~

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- R is an alkyl group of 1 to 5 carbons, or a phenyl group,
 Q is an amine functional group of the formula R^2Z
~~R³ is a divalent alkylene radical of 3 to 6 carbons, preferably trimethylene, pentamethylene, $CH_2CHCH_2CH_2$, or $CH_2CH_2CHCH_2CH_2$,~~
 Z is $N(R^3)_2$ or $NR^3(CH_2)_nN(R^3)_2$
~~R³ is individually an H atom or alkyl group of 1 to 20 carbon atoms or phenyl or benzyl,~~
 and wherein
 * is from 1 to 3000,
 y is from 0 to 3,
 z is from 1 to 3, and
 n is from 2 to 6.

3. (Currently Amended) A hair care composition according to claim 2, wherein comprising the terminal aminofunctional polysiloxane of (A) further comprises (B) wherein:

- R is a methyl
 Q is an amine functional group of the formula R^2Z
 R² is propyl or isobutyl $-CH_2CH_2CH_2-$ or $-CH_2CHCH_2CH_2-$
 Z is NH_2 or $NHCH_2CH_2NH_2$

and wherein

- x is from 10 to 400,
 y is from 0 to 1, and
 z is 1.

4. (Currently Amended) A hair care composition according to claim 3, wherein comprising the terminal aminofunctional polysiloxane of (A) further comprises (B) wherein:

- R is a methyl
 Q is an amine functional group of the formula R^2Z
 R² is propyl or isobutyl $-CH_2CH_2CH_2-$ or $-CH_2CHCH_2CH_2-$
 Z is NH_2 or $NHCH_2CH_2NH_2$

and wherein

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x is from 70 to 120[[.]].
y is from 0 to 1, and
z is 1.

5. (Currently Amended) A hair care composition according to claim 1 wherein said composition comprises from about 0.1% to about 10%, by weight of said ~~terminal aminofunctional~~ polysiloxane based on the total composition applied to the hair.
6. (Original) A hair care composition according to claim 1, wherein said composition further comprises at least one oxidative dye.
7. (Currently Amended) A hair care composition according to claim 1, wherein said composition has a pH of from about 9 to about 11.
8. (Original) A hair care composition according to claim 1 wherein said composition further comprises at least one additional conditioning agent.
9. (Canceled)
10. (Currently Amended) A hair colouring and conditioning kit comprising at least two components, a first component comprising an oxidising agent and a second component comprising a hair colouring agent, wherein said kit further comprises ~~an aminofunctional polysiloxane~~ a hair care composition according to claim 1 and wherein said ~~aminopolysiloxane~~ hair care composition is comprised within said first component, said second component or is comprised within a third component, wherein said first and said second components are mixed together immediately prior to application to the hair.
11. (Currently Amended) A packaged hair colouring and conditioning product comprising at least two chambers, a first chamber comprising a first composition comprising an oxidising agent, and a second chamber comprising a second composition comprising an oxidative hair colouring agent, wherein said package

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further comprises ~~an aminofunctional polysiloxane~~ a hair care composition according to claim 1, wherein said ~~aminofunctional polysiloxane~~ hair care composition is comprised within said first composition, or said second composition.

12. (Currently Amended) A packaged hair colouring and conditioning product comprising at least three chambers, a first chamber comprising a first composition comprising an oxidising agent, a second chamber comprising a second composition comprising an oxidative hair colouring agent, and a third chamber comprising a ~~third composition comprising a aminofunctional polysiloxane~~ hair care composition according to claim 1.
13. (Currently Amended) A method of colouring and conditioning human or animal hair, said method comprising the steps of:
(1) applying to the hair a hair colouring composition; and
(2) applying to the hair a hair ~~conditioning care~~ composition according to claim 1; and (3) ~~subsequently rinsing said composition off the hair.~~
14. (Currently Amended) A method of colouring and conditioning human or animal hair according to claim 13, said method comprising the steps of: ~~[-]~~
(1) applying a ~~conditioning hair care~~ composition according to claim 1 ~~[-]~~ to the hair and optionally subsequently rinsing said composition from the hair; and then
(2) applying a hair colouring composition to the hair and subsequently rinsing said composition from the hair.
15. (Currently Amended) A method of colouring and conditioning human or animal hair according to claim 13, said method comprising the steps of: ~~[-]~~
(1) first applying a hair colouring composition to the hair and subsequently rinsing said composition from the hair; and then
(2) second applying a ~~conditioning hair care~~ composition according to claim 1 ~~[-]~~ to the hair and ~~preferably~~ subsequently rinsing said composition from the hair.